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Northfleet Urban District Council.

ANNUAL REPORT

OF THE

Medical Officer of Health

For the Year 1947.

BY

M. F. McDONNELL, M.B., B.Ch., B.A.O., D.P.H.
Medical Officer of Health.

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NORTHFLEET URBAN DISTRICT COUNCIL.

Annual Report of the Medical Officer of Health for the Year ended December, 1947.

BY

M. F. McDONNELL, M.B., B.Ch., B.A.O., D.P.H.
(Medical Officer of Health).

To the Chairman and Members of the
Northfleet Urban District Council.

Mr. Chairman, Ladies and Gentlemen,

I have the honour to present for your consideration my Annual Report on the Public Health Conditions for the year ended 31st December, 1947.

An item of particular note in the Report is the large number of births which occurred during the year. This number—427—represents a birth rate of 23.42 per 1,000 of the estimated population as compared with 20.5 per 1,000 for England and Wales and 22.7 for the Administrative County of London.

The Report also contains an appendix in which I have included certain information of local interest from particulars received from the County Health Department in connection with the National Health Service Act 1946

I would extend to the Council my thanks for the continued interest and support.

Your obedient Servant,
M. F. McDONNELL,
Medical Officer of Health.

HEALTH COMMITTEE.

Councillor Mrs. B. E. Barker (Chairman)
,, A. H. Goodwin
,, L. F. Grieves
,, J. Haynes
,, J. W. Stanford
,, Mrs. V. G. Westcott, J.P.

MATERNITY AND CHILD WELFARE SUB-COMMITTEE.

All members of the Health Committee, together with the following who attended in a consultative capacity :—

Mesdames Clegg, Humphrey, Lane, Oakes, Smith, Stanford, Whitchelo and White.

Clerk :
Mr. W. G. Futcher.

Solicitors :
Mr. F. W. Jones (Resigned 30th September, 1947).
Messrs. Church, Bruce & Co. (Appointed 21st October, 1947).

Medical Officer of Health :
M. F. McDonnell, M.B., B.Ch., B.A.O., D.P.H.

Maternity and Child Welfare Officer :
James Crawford, M.B., Ch.B.

Sanitary Inspectors :
J. S. Cowpland, M.S.I.A., Cert. Meat Inspector.
A. J. Munford, M.R.San.I., M.S.I.A., Cert. Meat Inspector.

Health Visitor :
Miss E. Martin, S.R.N., S.C.M., A.R.San.I.

VITAL STATISTICS.

Area (as constituted at 30th June, 1935). (Tidal Water 339 acres)		3,770
Population (Census 1931)		16,080
,, (Estimated 1946)		18,230
Number of inhabited houses (31st December, 1947)		5,077
Number of new houses erected year ended 31st December, 1947		102
Number of families or separate occupiers	(1931)	3,723
Rateable value 31st December,	(1947	£116,562
,, ,,	(1946	£112,625
,, ,,	(1945	£109,473
Sum represented by a penny rate	(1947	£485
	(1946	£471
	(1945	£435
Number of Births	(1947	427
	(1946	393
	(1945	299

		Northfleet.		England & Wales.	
		Live.	Still.	Live.	Still.
Birth Rate per 1,000 population	(1947	23.42	0.22	20.5	0.50
	(1946	21.98	0.84	19.1	0.53
	(1945	18.7	0.56	16.1	0.46

Number of illegitimate births	(1947	18
	(1946	11
	(1945	17

		Northfleet.	England & Wales.
Death Rate per 1,000 population	(1947	12.28	12.0
	(1946	10.9	11.5
	(1945	11.8	11.4

Number of Deaths	(1947	224
	(1946	195
	(1945	189

		Total	M.	F.
Live.	Legitimate	409	195	214
	Illegitimate	18	9	9
Stillbirths	Legitimate	4	3	1
	Illegitimate	—	—	—
Deaths		224	102	122

Birth rate per 1,000 of the estimated resident population	23.42
Rate per 1,000 (total live and still) births	9.281
Death rate per 1,000 of the estimated resident population	12·28

Death Rate of Infants under one year of age :—

All infants per 1,000 live births	65.57
Legitimate infants per 1000 legitimate live births	63.58
Illegitimate infants per 1,000 illegitimate live births	111.11
Deaths from Cancer (all ages)	30
,, ,, Measles (all ages)	1
,, ,, Whooping Cough (all ages)	0
,, ,, Diarrhoea (under 2 years of age)	3

CAUSES OF DEATH IN NORTHFLEET URBAN DISTRICT, 1947.

	Causes of Death.	Male.	Female.
	All causes	102	122
1	Typhoid and paratyphoid fevers	—	—
2	Cerebro-spinal fever	—	—
3	Scarlet fever	—	—
4	Whooping Cough	—	—
5	Diphtheria	—	—
6	Tuberculosis of respiratory system	5	3
7	Other forms of Tuberculosis	—	1
8	Syphilitic diseases	1	—
9	Influenza	—	—
10	Measles	1	—
11	Infantile Paralysis, etc.	—	—
12	Ac : inf : enceph :	—	—
13	Cancer of mouth, etc. : (m) uterus (f)	—	—
14	Cancer of stomach and duodenum	4	6
15	Cancer of breast	—	2
16	Cancer of other sites	6	8
17	Diabetes	—	—
18	Intra-cranial vascular lesions	7	10
19	Heart disease	24	29
20	Other disease of circ. system	5	3
21	Bronchitis	17	11
22	Pneumonia	4	4
23	Other resp. diseases	—	2
24	Ulcer of the stomach or duodenum	1	1
25	Diarrhoea under 2 years	—	1
26	Appendicitis	—	—
27	Other digestive diseases	2	6
28	Nephritis	5	2
29	Puerperal Pyrexia	—	—
30	Other maternal causes	—	—
31	Premature birth	4	9
32	Congenital malformation : birth injury, etc.	2	2
33	Suicide	1	2
34	Road traffic accidents	2	—
35	Other violent causes	4	4
36	All other causes	6	1

BIRTH RATES, CIVILIAN DEATH RATES, ANALYSIS OF MORTALITY, MATERNAL MORTALITY AND CASE RATES FOR CERTAIN INFECTIOUS DISEASES IN THE YEAR 1947.

PROVISIONAL FIGURES BASED ON WEEKLY AND QUARTERLY RETURNS.

	England and Wales	126 County Boro's and Great Towns Populations including London.	148 Smaller Towns (Resident 25,000 to 50,000 at 1931 Census)	Administrative County London.	Northfleet.
	Rates per 1,000 Population.				
Births :—					
Live	20.5	23.3	22.2	22.7	23.42
Still	0.50	0.62	0.54	0.49	0.22
Deaths :—					
All causes	12.0	13.0	11.9	12.8	12.28
Measles	0.01	0.02	0.02	0.01	0.05
Whooping Cough	0.02	0.03	0.02	0.02	0.00
Diphtheria	0.01	0.01	0.01	0.01	0.00
Influenza	0.9	0.9	0.8	0.8	0.00
Notifications :—					
Scarlet Fever	1.37	1.54	1.37	1.31	0.98
Diphtheria	0.13	0.15	0.14	0.14	0.10
Typhoid Fever	0.01	0.01	0.00	0.01	0.16
Paratyphoid Fever	0.01	0.01	0.01	0.01	0.00
Erysipelas	0.19	0.21	0.18	0.22	0.10
Pneumonia	0.79	0.89	0.68	0.64	0.64
Cerebral Spinal Fever	0.05	0.06	0.05	0.05	0.04
Measles	9.41	9.13	9.58	5.29	9.32
Whooping Cough	2.22	2.41	2.02	2.80	2.52
	Rates per 1,000 Live Births.				
Deaths under 1 year of age	41	47	36	37	65.57
Deaths from Diarrhoea and Enteritis under 2 years of age.....	5.8	8.0	3.7	4.8	7.02
	Rates per 1,000 total Births (Live and Still)				
(*a*) NOTIFICATIONS :					
Puerperal Fever)	7.16	8.99	6.27	) 1.21	0.00
Puerperal Pyrexia)				) 6.94	

(*b*) MATERNAL MORTALITY :

	No. 140 Abortion with Sepsis	No. 141 Abortion without Sepsis	No. 147 Puerperal Infections	Nos. 142-6 148-150 Others
England & Wales	0.10	0.06	0.16	0.85
Northfleet	0.00	0.00	0.00	0.00

GENERAL PROVISION OF HEALTH SERVICES FOR THE AREA

MIDWIVES.

This service is now administered by the Kent County Council under the provisions of the National Health Service Act of 1946. The names and addresses of midwives employed by the Council will be found on page 25 of the Appendix to this Report.

MATERNITY AND CHILD WELFARE.

Average weekly attendance at all M. and C.W. Centres	194
Total attendances of children during the year	10,124
New attendances	390

Infant Welfare Centres.

(a) Total number of attendances at all Centres during the year :—	
(i) By children under 1 year of age	4,774
(ii) By children between the ages of 1 and 5 years	1,273
Total	6,047
(b) Total number of children who attended the Centres for the first time during the year, and who on the date of their first attendance were :—	
(i) Under 1 year of age	369
(ii) Between the ages of 1 and 5 years	21
(c) Total number of children who attended at the Centres during the year and who, at the end of the year were :—	
(i) Under 1 year of age	312
(ii) Between the ages of 1 and 5 years	399

Ante-Natal Clinics.

(a) Number of clinics provided and maintained by the Council	1
(b) Total number of attendances by expectant mothers at all clinics during the year	82
(c) Total number of expectant mothers who attended the clinics during the year	43

MATERNITY AND CHILD WELFARE DEPARTMENT.

The Kent County Council as the Local Health Authority under the National Health Service Acts, are responsible for the provision of these services. A statement shewing the facilities provided, together with a brief description, will be found on pages 24, 25 and 26 of the Appendix hereto.

AMBULANCE FACILITIES.

Bow Arrow Hospital and the P.L.A. Hospital provide ambulances for the removal of infectious disease cases to hospital.

Particulars of ambulance services for accidents and general purposes will be found on pages 26 and 27 of the Appendix hereto.

HOME NURSING.

The Kent County Council are now the responsible authority for providing nurses required in the home and particulars of the service and name and address of the nurse are given on page 26 of the Appendix attached to this Report.

RELIEVING OFFICER.

The duties of Relieving Officer ceased with the commencement of the National Assistance Act on 1st July, 1948. A large part of the duties however are still carried out by the District Officer whose name and address will be found on page 26 of the Appendix attached to this Report.

REGISTRAR OF BIRTHS AND DEATHS.

D. A. Gough, 36, Springhead Road, Northfleet.
Mondays 2—4 p.m.
Fridays 5—6 p.m.

MENTAL WELFARE.

Dr. L. A. Allen, Senior Assistant County Medical Officer has been appointed Medical Officer for Mental Welfare. Dr. Allen's address is County Hall, Maidstone, the telephone No. being Maidstone 4321.

BLIND PERSONS.

Information on matters affecting the blind, or those threatened with blindness, can be obtained from the Secretary of the Kent County Association for the Blind, 15, Ashford Road, Maidstone (Telephone 3717).

Financial assistance is provided by the National Assistance Board, Shepherds Lane, Dartford.

VENEREAL DISEASES.

The undermentioned figures show the number of cases suffering from V.D. attending Rochester and Gravesend V.D. Clinics from Northfleet Urban District :—

New Patients (Northfleet)	Male.	Female.	Total.
Syphilis	3	3	6
Soft Sore	—	—	—
Gonorrhoea	5	—	5
Non Venereal	11	3	14
	19	6	25

Total No. of Patients (New) from all areas	535
No. of attendances of Northfleet Patients	87
Total No. of Attendances all Areas	4,275

Disharges (All Districts) cured—	Male.	Female.	Total.
Syphilis	10	7	17
Gonorrhoea	36	12	48
Non-Venereal	115	45	160
	161	64	225

Defaulted before completion of treatment :—

Syphilis	1	1	2
Gonorrhoea	2	—	2
	3	1	4

PREVALENCE OF, AND CONTROL OVER INFECTIOUS AND OTHER DISEASES.

The following temporary arrangements have been made for the reception and treatment of cases of infectious diseases :—

Smallpox to Dislingbury Hospital, (Tel. Maidstone 4321).
Other cases to Dartford (Bow Arrow) Isolation Hospital (Tel. Dartford 3369).
and Male cases over nine years of age are admitted to the P.L.A. Isolation Hospital, Denton (Tel. Gravesend 257).

Scarlet Fever.

Cases notified	18
Cases removed to Hospital	10
Percentage of cases removed	55.5

Diphtheria.

Cases notified	2
Cases removed to Hospital	2
Percentage of Cases removed	100

Enteric Fever.

Cases notified	3
Cases removed to Hospital	3
Percentage of Cases removed	100

Sonne Dysentery.

Cases notified	Nil

Tuberculosis.

Statement of particulars appearing on the register of notifications of cases of Tuberculosis for the year ended 31st December, 1947 :—

	Pulmonary.			Non-Pulmonary.			Pu and Non-Pul Totals
	M.	F.	Total	M.	F.	Total	
(a) No. of cases of Tuberculosis on the register at the commencement of the year	68	45	113	13	10	23	136
(b) No. of cases remaining on the register at the end of the year	75	45	120	13	9	22	142
(c) No. of cases notified during the year	16	8	22	2	—	2	26
(d) No. of deaths during the year	8	2	10	—	—	—	10

The following are the ages and occupations of those persons notified during the year :—

Age M.	Age F.	Occupation.	Age M.	Age F.	Occupation
	65	Housewife	27		Printer Engraver (Ex-R.A.F.)
	18	Shop Assistant	55		Painter
32		Fitter	45		Steriotyper
17		Scholar	53		Loco. Driver
31		Electrician R. Navy	43		Sheet Metal Worker
22		Clerk		19	Paper Sorter
22		Welder (Ex-R.A.F.)		16	Domestic Help
30		Engineer		51	Housewife
20		Driver R.A.S.C.	29		Bricklayer (Ex-R.H.A.)
36		Lorry mate	59		Labourer
	22	Factory worker	19		Chemical Laboratory worker
	36	Housewife	23		Labourer
55		Seaman		30	Housewife

DIPHTHERIA IMMUNISATION.

The functions of this service are, under the provisions of the National Health Service Act, 1946, transferred to the Kent County Council. The County Council indicate that Immunisation will be provided much in the same form as previously with an increasing use of general practitioners. Diphtheria Prophylactic is provided by the County Laboratory on application to Dr. E. R. Jones, Senior Pathologist, at County Hall, Maidstone.

Clinics are held daily at the Council Offices from 10-11 a.m. and twice weekly at the Maternity and Child Welfare Clinic from 3-4 p.m.

PRESENT POSITION.

(Council's Scheme only).

	Under 5 years.	Between 5 and 15 years
Percentage immunised	42.6	59.85
Total number of children immunised (Estimated)	673	1598

Scabies.

During the year treatment for persons suffering from Scabies was provided at Brookvale Depot and 18 persons and contacts were treated.

SANITARY CIRCUMSTANCES OF THE AREA.

Reports received on samples taken from various taps on the Gravesend and Milton Water Works Co. supply to the area.

Date of Samples 1947.	No. of organisms per c.c. capable of growth on Agar at 37°C.	22°C	Remarks.
22nd January	0	0	Good Waters
	0	8	,, ,,
19th February	0	0	,, ,,
	0	0	,, ,,
26th March	0	0	,, ,,
	0	7	,, ,,
2nd April	0	40	,, ,,
	0	10	,, ,,
23rd April	0	1	,, ,,
	0	0	,, ,,
21st May	0	1	,, ,,
	0	8	,, ,,
25th June	0	0	,, ,,
	0	0	,, ,,
30th July	0	0	,, ,,
	0	0	,, ,,
27th August	0	4	,, ,,
	0	2	,, ,,
24th September	0	0	Good Waters
	0	1	,, ,,
29th October	1	0	,, ,,
	0	3	,, ,,
26th November	46	66	"Counts rather higher than usual"
	3	48	
19th December	0	0	Good Waters
	0	2	,, ,,

GRAVESEND AND MILTON WATERWORKS COMPANY.

Report on three samples of water received from here labelled :—

No. 1 and 3. "Well water from Pumping Station, Downs Road, Northfleet, 25/6/47 and 19/12/47 respectively.

No. 2. "Tap water from No. 12, West Kent Avenue, Northfleet, 19/12/47."

"These waters were of satisfactory organic quality and, on the chemical analysis given below, fit for drinking."

Analytical Details.	Parts per 100,000.		
	No. 1.	No. 2.	No. 3.
Total solid residue	36.5	35	35.5
Chlorine	1.9	1.6	1.5
Free Ammonia	none	none	none
Albuminoid Ammonia	none	none	none
Nitrogen as Nitrates	0.6	0.4	0.3
Nitrogen as Nitrites	none	none	none
Oxygen absorbed $\frac{1}{4}$ hour at 26.7°C.	0.005	0.005	0.008
Oxygen absorbed 4 hours at 26.7°C.	0.013	0.01	0.013
Toxic metals	Not detected	Not detected	Not detected
Free chlorine on receipt	—	none	none
Hardness : Permanent	—	3.4	3.2
Temporary	—	23.4	24.0
Total	—	26.8	27.2

INSPECTION AND SUPERVISION OF FOOD

MILK SUPPLY.

There are no milk producers registered in the district, all milk retailed locally is produced in other areas.

One Pasteurising Establishment is registered to process milk in the area. During the year ten samples of milk treated at the Establishment were submitted for examination to the County Laboratories ; all satisfied the prescribed tests. Twenty-seven samples of raw ungraded milk were also taken at the pasteurising plant before treatment in order to assess the standard of cleanliness of production and for the biological test for Tuberculosis. One sample showed Tubercle bacilli to be present and three samples were not a high standard of cleanliness. The appropriate authorities were informed in all instances, and action was taken to remedy the conditions. Three dairymen are licensed to sell pasteurised milk in the district and nine samples were taken during the year ; one did not comply with the prescribed test and the necessary action was taken to improve the conditions.

ICE CREAM.

Fourteen samples of ice cream were submitted to the County Laboratories during the year for examination. The methylene blue test revealed that four samples could be placed in grade I ; eight samples were classified in grade II and two samples were graded III.

FOOD AND DRUGS ACT, 1938.

Food Sampling under this act is carried out by the Kent County Council who are the Food and Drugs Authority. The officer responsible for the service is S. Strugnall, Esq., Chief Inspector of the Weights and Measures Department, County Hall, Maidstone. This officer has kindly supplied the following statement of food sampling, which has taken place in Northfleet during the year :—

FOOD AND DRUGS ACT, 1938.

Details of Samples taken by the County Sampling Officers within the Northfleet Urban District during the year ended 31st December, 1947 :—

Article.	Number of Samples.
Beef Cubes	1
Beef Sausage Meat	1
Black Pepper	1
Chemical Food	1
CoConut Flavoured Cake Mixture	1
Cod Liver Oil	1
Compound Bismuth Mixture	1
Cooking Fat	1
Cough Linctus	1
Dried Egg	1
Evaporated Milk	1
Gelatine	1
Gripe Mixture	1
Icing Sugar	1
Liquid Paraffin	1
Luncheon Sausage	2
Margarine	1
Meat Loaf	1
Medicinal Peppermint Tablets	1
Milk	41
Non-Brewed Vinegar	1
Orange Flavoured Cordial	1
Orange Marmalade	1
Processed Cheese	2
Raspberry Jam	1
Smoked Herring Roe Spread	1
Self Raising Flour	4
Spirits :—Gin 2, Rum 2, Whisky 1	5
Strawberry and Gooseberry Jam	1
Table Jelly	1
Vegetable Soup	1
	80

All the above samples were " Genuine " with the exception of the following :—

MILK.	Contained 6.8% extraneous water	Investigations showed that water was trapped in the pipe line of the machine milking apparatus, and this was probably the cause of the additional water. The necessary alterations were made and further samples proved satisfactory.

Raspberry Jam	Fruit content 16%. Soluble Solids 69.2% Slightly deficient in Total Solids.	No further samples were available.
Self Raising Flour	Carbon Dioxide 0.35% whereas the minimum standard is 0.40%.	Investigations showed that the loss in available Carbon Dioxide was due to damp conditions of storage. Samples taken from the wholesale supplier were genuine.
Orange Flavoured Cordial	Citric Acid 1.26, Sugar 14.96, Saccharine 0.047, Benzoic Acid 500 parts per million.	The analysis showed a slight deficiency in sugar and the sample was returned by the Public Analyst as being "Inferior." No further action was taken.

OTHER FOODS CONDEMNED.

Articles Condemned.	Amount.
Canned milk	116 × 14oz. tins.
Canned meat	87 × tins.
Canned vegetables	177 × tins,
Canned fish	173 tins.
Eggs (shell)	29½ doz.
Fish	16 stone.
Cheese	17½ lbs.
Mutton	39 lbs.
Beef	62 lbs.

SEWAGE.

The following samples of sewage effluent have been taken from the works at different points, and they are itemised as follows :—

	Date of sample	Total dissolved solids	Total suspended solids	Chlorine	Free Ammonia	Albuminoid Ammonia	Nitrogen as Nitrates	Nitrogen as Nitrites	Oxygen absorbed ¼ hour at 26.7° C.	Oxygen absorbed 4 hours at 26.7° C.	Dissolved oxygen requirement, 5 days
	Settlement :										
1.	23/4/47	139.0	17.0	26.9	12.4	1.5	none	none	3.4	6.1	—
	Sprinkler :										
2.	22/1/47	134.5	7.0	27.3	3.1	0.6	5.0	present	1.4	2.3	2.9
3.	25/11/47	94.5	8.8	19.5	3.7	1.36	1.4	present	1.4	2.6	9.7
4.	19/12/47	109.0	4.25	26.2	5.03	0.62	2.0	trace	1.76	2.66	8.5
5.	19/12/47	112.0	3.75	25.8	3.6	0.34	2.0	present	1.09	1.89	6.4
	Humus :										
6.	22/1/47	123.0	4.8	26.4	6.8	0.8	none	present	1.92	3.33	9.7
7.	23/4/47	165.0	45.0	26.4	10.5	2.5	0.1	present	3.70	7.04	20.0
8.	2/4/47	111.5	5.25	22.8	3.74	0.54	3.3	present	1.47	2.30	4.6
9.	16/6/47	102.0	6.25	21.0	7.0	0.54	none	present	1.5	2.5	3.4
10.	16/6/47	99.5	5.0	19.7	8.4	0.75	none	none	1.3	2.9	6.7
11.	13/8/47	119.0	—	21.3	7.3	0.8	none	none	2.816	4.10	—
12.	24/9/47	99.0	4.5	20.3	5.7	0.48	none	none	1.8	2.9	3.9
13.	15/10/47	105.0	1.5	24.4	6.4	0.54	0.1	present	1.8	3.0	5.8
	Main Water Course :										
14.	22/1/47	144.5	19.0	28.9	9.4	1.2	none	present	2.7	3.7	16.0
15.	19/2/47	122.0	16.7	15.2	13.3	1.5	none	none	3.65	6.08	17.0
16.	19/2/47	107.0	8.5	15.6	11.7	1.02	none	none	2.62	4.74	17.0
17.	19/2/47	11.10	8.5	16.3	12.3	0.95	none	none	2.91	4.80	17.0
18.	2/4/47	122.0	6.0	25.5	9.11	1.09	none	none	2.5	3.4	15.1
19.	24/11/47	103.0	6.0	22.8	9.0	0.88	none	none	2.0	3.2	10.2

REMARKS :—

Samples Nos.

1. A very poor effluent.
2. A good remarkably well nitrated effluent.
3. No comment.
4. The effluent is fit for discharge.
5. The effluent is fit for discharge.
6. This sample is worse than the sprinkler bed effluent in suspended solids, ammonia, oxygen absorbed and B.O.D. In all these respects the opposite is what would be anticipated. Most remarkable of all is the complete disappearance of nitrate.
7. A very poor effluent.
8. This is a somewhat better effluent then recent samples.
9. No comment.
10. No comment.
11. The suspended solids, albuminoid ammonia and oxygen absorbed from permanganate are all higher than in the previous sample (W47/189 : 16/6/47) and the dissolved oxygen absorption (B.O.D.) is greatly increased ; no nitrification has taken place ; a very poor effluent.
12. The above results are obviously bad in a sample described as a mixture of water course and sewage.
13. The B.O.D. is nearly three times that suggested as a maximum by the Royal Commission on Sewage Disposal. There is some slight degree of nitrification and the effluent is well settled but it appears that the filter beds are inadequate or inefficient.
14. A heavily polluted watercourse.
15. No comment.
16. No comment.
17. No comment.
18. The stream water is very similar to the last samples.
19. No comment.

HOUSING.

Housing still remains one of the pressing needs of the district. During the year ninety permanent type houses were completed on the New House Farm Estate by the Council, private building provided twelve dwellings and the pre-OCTU camp at Wrotham—now named Highview Estate—supplied accommodation for one hundred families. The demand remains acute and over 1,000 applicants are on the Council's register awaiting accommodation.

This shortage presents many problems, one of which is the re-occupation of sub-standard dwellings after the previous tenants have been given other accommodation by the Council. The matter was one of concern during the year and guidance was sought from the Ministry of Health as to the likelihood of the confirmation of Clearance Orders made under the provisions of the Housing Act, 1936.

The Ministry indicated that for the time being the restricted supply of labour and materials must be concentrated on the provision of new houses and that it is essential not to diminish the existing supply of accommodation. It was also stated that for this reason it is necessary still to maintain the policy decided in 1939 that action to secure the demolition of houses under Parts II and III of the Housing Act, 1936, should be suspended except where the Council are satisfied that the conditions of a house are such that even in the present emergency it must not be occupied and steps must be taken to demolish it or give the Council effective control.

REPORT OF THE HEALTH VISITOR FOR THE YEAR 1947.

Mr. Chairman, Ladies and Gentlemen,

I have pleasure in presenting a report of the work carried out in 1947.

This is necessarily compiled from records only, and must on that account lack some of the personal element which plays a so manifestpart in this department.

Infant Welfare.

1. VISITING.

Ante-Natal Visits	17
Babies 0—1 year (First visit)	424
,, 0—1 year (Subsequent visits)	972
,, 1—5 years (Routine visits)	758
,, 0—5 years (Special visits)	61

2. SESSIONS.

The post-war increased birth-rate reached its peak during this year, in spite of this, and for the latter half of the year, staffing difficulties, the records shew a satisfying picture of attendances at centres.

Records, however, can never do justice to the amount of patience and energy involved by all workers concerned, in helping to make this work a success.

It is sometimes forgotten that without co-operation and a great deal of trust on the part of the mothers (and perhaps to a lesser degree, fathers), the value of our work would be minimised ; they deserve all the encouragement we can give them.

Ante-Natal Care.

The existing facilities, whereby midwives' cases are dealt with at the Council Annexe Centre, and referred for medical examination if necessary, seem to be satisfactory to all concerned.

Foster Children.

There are now three on the register, all of whom are well cared for, in suitable, happy homes.

Diphtheria Immunisation.

Response to propaganda efforts is very satisfactory.

Sale of Foods.

1943	£874
1944	£1,104
1945	£1,577
1946	£2,256
1947	£2,905

Foods and Clerical Administration.

No records are required for me to testify to the quality and quantity of the work in this department. I merely wish to endorse what is already known.

Miss Cook possesses the rare faculty of combining good training with good humour, both of which are essential in work of such a nature. To her must go a large share of credit, for a successful year of work.

I am,
Your obedient Servant,
VERONICA GRAY.

ANNUAL REPORT OF THE CHIEF SANITARY INSPECTOR FOR THE YEAR 1947.

To the Chairman and Members of the
Northfleet Urban District Council.

Ladies and Gentlemen,

I have once again great pleasure in submitting the annual report for the year 1947.

As in previous years, the report shows the work carried out by the department has been maintained at a satisfactory standard.

Number of complaints received during the year	480
Total number of visits made	3,043
Informal Notices served	312
,, ,, complied with	273
Statutory Notices served	155
,, ,, complied with	121

Visits made by Sanitary Inspectors during the year 1946.

First visits, Public Health Act, 1936	441
Re-visits, Public Health Act, 1936	1,152
Infectious disease enquiries	197
Inspections of verminous premises	31
Visits in connection with verminous persons	27
Water supply and subsequent visits	36
Drainage inspections	109
Drains tested	39
Visits regarding cesspools	17
Housing Act visits and revisits	253
Moveable dwelling inspections	6
Rats and mice visits	107
Factories visited	62
Bakehouses—basement	7
Bakehouses—ground level	5
Food premises	162
Dairies and milkshops	18
Milk sampling	41
Water sampling	27
Sewage sampling	31
Ice cream sampling	28
Stables and slaughterhouses	14
Miscellaneous, accumulations, animals, interviews, etc.	210

The following is a summary of nuisances and defects remedied during the year :—

Accumulations of offensive refuse removed	3
Animals in an unfit state	4
Ashbins provided	122
Ceilings repaired	67
Cesspools repaired	6
Chimney stacks repaired or rebuilt	9
Chimney flues repaired	9
Doors repaired or renewed	4
Door frames repaired or renewed	4

Drainage Systems :—	
Drains repaired or reconstructed	3
Drains cleansed	71
Gully traps repaired or renewed	3
Soil and vent pipes provided	0
Inspection chambers repaired	1
Eaves gutters repaired or renewed	33
Valley gutters repaired or renewed	5
Firegrates repaired or renewed	34
Fireplaces, brickwork and plasterwork repaired	7
Floors repaired or relaid	14
Floors, sub-floor ventilation provided	2
Rainwater downspouts repaired or renewed	12
Roofs repaired	98
Sinks repaired or renewed	1
Sink waste pipes repaired or renewed	9
Stoves repaired or renewed	6
Rats, premises visited	107
Verminous rooms	3
Walls, brickwork repaired, repointed or rendering repaired	23
Walls, damp proofed	35
Walls, internal plasterwork repaired	76
Washing boilers, coppers repaired or renewed	11
Water closets :—	
External structure repaired	7
Internal structure repaired	4
Flushing cisterns repaired or renewed	22
Flush pipes repaired or renewed	9
Basins and traps renewed	40
Seats repaired or renewed	2
Water supply, supply pipes, etc., repaired	20
Windows, woodwork of frames, sashes or sills repaired or renewed	37
Yard surfaces repaired or renewed	15
Miscellaneous	14

Infection and Disinfection.

The disinfection of the home is carried out by a trained member of the staff, either by spraying or by gaseous disinfection. Clothing and bedding is removed and treated at Brookvale Depot in the Thresh Disinfector. Books and other articles are also fumigated at Brookvale Depot.

In addition to disinfections within the district, two neighbouring authorities also use the disinfecting facilities provided at Brookvale Depot.

During the year 197 visits in connection with cases of infectious diseases were made.

The following table shows the number of cases of infectious disease investigated during the year :—

Scarlet Fever	18
Tuberculosis	26
Erysipelas	3
Sonne Dysentery	0
Puerperal Fever	0
Enteric Fever	3
Total	50

Disinfestation.

Premises with bed bugs are treated by spraying with a liquid insecticide and fumigated with sulphur candles. Bedding and clothing being treated in the steam disinfector.

A charge is made for this service. Other infestations treated during the year being cockroaches, wasps, ants and fleas ; the method being by insecticide powders, liquids or cyanide gas.

Dairies, Cowsheds and Milkshops.

There are no milk producers within this area, but two dairymen are licensed to sell " Tuberculin Tested Milk " one to bottle same and three to sell " Pasteurised " milk.

Twenty-five persons and premises are registered for the carrying on of such business, viz :—

Dairymen	2
Milkshops (bottle milk only)	20
Sterilised milk (wholesale)	3

Bakehouses.

There are but three bakehouses operating as such in the district, a further one being discontinued during the year, these have been maintained in a satisfactory manner.

Rats and Mice.

The Council have a part-time rat catcher whose services are free to occupants of dwelling houses ; business premises being charged. During the year the sewers were tested and once more found to be free of infestation.

Factories Act, 1937.

(1) INSPECTIONS.

Premises.	Number on Register.	Inspections.	Number of Notices.	Prosecutions.
(1) Factories in which Secs. 1, 2, 3, 4 and 6 are to be enforced by Local Authorities	4	4	Nil	Nil
(2) Factories not included in (1) to which Sec. 7 applies	47	58	4	Nil
Total	51	62	4	Nil

(2) Cases in which defects were found.

Particulars	No. of cases in which defects were found. Found.	Remedied.	Referred To H.M. Inspectors.	Referred By H.M. Inspectors.	Prosecutions.
Want of Cleanliness (S1)	—	—	—	—	—
Overcrowding (S2)	—	—	—	—	—
Unreasonable Temperature (S3)	—	—	—	—	—
Inadequate Ventilation (S4)	—	—	—	—	—
Ineffective Drainage of floors (S6)	—	—	—	—	—
Sanitary Conveniences (S7)					
(a) Insufficient	3	3	—	—	—
(b) Unsuitable or defective	1	1	—	—	—
(c) Not separate for sexes	—	—	—	—	—
Total	4	4	—	—	—

Public Cleansing.

Refuse collection is carried out by three Karrier Bantam Refuse Collector Vehicles, one of which came into operation in 1936, another in 1938 and the latest in 1940. The latest vehicle being the convertible cesspool emptier—refuse collector.

All these vehicles have been in continuous service since 1940, and at no period have any of the vehicles been off the road for more than three weeks at any one time. During this time the cesspool emptying vehicle has been used to assist neighbouring authorities on several occasions.

Weekly collection of house refuse is maintained in the more urban part of the district, whilst refuse is collected fortnightly in the rural areas; part of the rural district is, however, developing, and this, together with the Council estates proposed and in the course of erection, will soon require additions to the collecting service. In all, 4,665 tons of refuse were disposed of by means of controlled tipping.

Gulley, Catchpit and Cesspool Emptying.

These services have been carried out successfully during the year, and, in addition, roads on the New House Farm Estate were also being serviced.

Street Cleansing.

During the year, the New House Farm Estate was taken over and although the same staff for cleansing was maintained, it was augmented by the use of utility van for picking up the road sweepings and discarding any future use of the road lay-byes which had been used previously.

I am,
Your obedient Servant,
J. S. COWPLAND,
Chief Sanitary Inspector.

APPENDIX.

For the information of Members, I have extracted certain information of local interest from a Report which has been issued from the County Health Department.

NATIONAL HEALTH SERVICE ACT, 1946.

K.C.C. HEALTH SERVICES.

DISTRICT OFFICERS.

These officers are responsible for—

(1) Duties as Authorised Officers under the Lunacy and Mental Treatment Acts.

(2) Acting as representatives of the County Health Department in dealing with enquiries made by the public and arranging for County Health Services to be made available in cases of difficulty.

(3) Carrying out the duties of the County Council under the National Assistance Act in (a) arranging admissions of old, handicapped and homeless people to residential establishments other than in cases of sickness (b) the care of moveable property of patients who are admitted to hospital or a residential establishment provided by the Council where it appears that there is danger of loss or damage to the property.

District Officer: Mr. G. T. Jeffery,
Arthur Street,
Gravesend.
Telephone : 166 Gravesend.

ANTE-NATAL CLINICS AND POST-NATAL CLINICS.

Advice and ante-natal care is given at these clinics.
Post-natal examinations are carried out at Ante-Natal Clinics.
Ante-Natal and Post-Natal Clinic : Council Offices, Northfleet,
Thursday afternoons.

WOMEN'S WELFARE CLINICS.

These clinics are provided for the purpose of giving advice on women's minor ailments, sterility and on contraception where such advice is necessary for medical reasons.

Women's Welfare Clinic: Central,
Windmill Street,
Gravesend.
2nd Saturday mornings.

CHILD WELFARE CENTRES.

These centres are open at the days and times set out for the purpose of giving advice as to the care of infants and children under the age of five years. Infant foods, National Dried Milk and Ministry of Food Vitamin products are issued at these Centres. A Medical Officer and a Health Visitor are in attendance at each centre.

Ministry of Food Offices and other Centres are also available for the supply of National Dried Milk and Ministry of Food Vitamin products for Expectant and Nursing Mothers and for children under five years of age.

Child Welfare Centres :

Council Offices, Northfleet.	Mondays and Thursday afternoons. Toddlers, 1st Thursday afternoon.
Wrotham Road, Istead Rise, "Keston."	1st Tuesday afternoon.
Harriers Hall, St. Thomas Road, Perry Street.	Wednesday afternoons.

DAY NURSERIES.

These nurseries provide accommodation for the daily care of children under five years of age. Priority for admission is given in the following circumstances :—

(a) Children whose mothers need to work, who are :—
  (i) Unmarried mothers.
  (ii) Widows who require to supplement their pensions.
  (iii) Mothers with disabled husbands.

(b) Children whose mothers are :—
  (i) Women with large families who require assistance with their young children.
  (ii) Women in chronic ill-health whose household duties, plus the care of the children are too much for them.
  (iii) Women who need to arrange for the care of a toddler while they have another baby.
  (iv) Women faced with an emergency such as a serious illness in the home.

A charge is made in respect of the meals provided for the child.

Application for admission should be made to the Matron of the Nursery.

Day Nurseries : "Glendillon," Old Road, Gravesend.
"Daneholm," Pelham Road, Gravesend.

RESIDENTIAL NURSERIES.

These are Short Stay Nurseries for the care of children whose mothers are unable to care for them owing to confinement, illness, etc. Applicants should be referred to the Health Visitors, Welfare Centre, or District Officer, or in case of urgency should get in touch direct with the Health Department, County Hall, Maidstone.

Applications should not be made to the Nursery.

DOMESTIC HELP.

This service is to provide domestic help for households where such help is required owing to the presence of any person who is ill, lying in, an expectant mother, mentally defective, aged, or a child not over compulsory school age. Householders are required to contribute towards the cost in accordance with their means.

Domestic Help : Welfare Clinic,
Council Offices,
Northfleet.

HEALTH VISITORS.

These officers are appointed for the purpose of giving advice as to the care of young children, persons suffering from illness and expectant and nursing mothers and as to the measures necessary to prevent the spread of infection.

The Health Visitors also undertake duties in connection with the School Health Service.

Health Visitor: Miss V. Gray, M. & C.W. Department, Council Offices, Northfleet.

DOMICILIARY MIDWIFERY SERVICE.

This service, which is free, is to secure that an adequate number of midwives is employed by the Council for attending women in their own homes, either as midwives or maternity nurses.

The names and addresses of Home Nurses in Area 5 are given below. Where the nurse is on the telephone the number is also given.

Midwives: Miss M. C. Chamberlain,
34, Springhead Road, Northfleet. Gravesend 4079.
Miss A. J. Woods,
37, Hardy Avenue, Northfleet. Gravesend 5165.

HOME NURSING SERVICE.

This service, which is free, is to secure the attendance of nurses on persons who require nursing in their own homes. Apart from cases of emergency and accident, patients can only be attended when the nurse has been requested to do so by a doctor. At the present time it is not possible to provide a night service.

The names and addresses of Home Nurses in Area 5 are given below. Where the nurse is on the telephone the number is also given.

Home Nurse: Northfleet Diamond Jubilee Samaritan Fund (Nurse—Mrs. D. Paine, 16, Lamorna Avenue, Gravesend. Telephone: Gravesend 4654.
Nurse attends at the Council Offices, Northfleet at 9.0 a.m. and 2.0 p.m. daily).

COUNTY AMBULANCE SERVICE.

The County Council is responsible for the provision of a comprehensive ambulance service throughout the County. Other than in cases of accident and emergency, no ambulance or car will be provided except on the recommendation of a doctor, midwife, hospital or District Officer.

To facilitate the call-out of ambulances in cases of accident or emergency, arrangements have been made with the Post Office Authorities for such calls to be passed automatically to the nearest manned fire station, the staff of which will assume the responsibility of dealing with the emergency. The arrangement will not operate where direct lines exist between public call boxes and ambulance stations.

The service will be provided by (a) vehicles provided and manned by the County Council; (b) vehicles operated and manned by the St. John Ambulance Brigade, British Red Cross Society and the Margate Ambulance Corps acting as agents of

the Council and (c) sitting-case cars provided through the Hospital Car Service as the agents of the Council.

County Ambulance Service :

Northfleet :—St. John Ambulance Brigade (2 ambulances), The Hill, Northfleet. Telephone : Gravesend 4603.

Gravesend :—St. John Ambulance Brigade (5 ambulances), Commercial Place, Gravesend. Telephone : Gravesend 854.

Rochester :—Kent County Council (6 ambulances), King Edward Road, Rochester. Telephone : Rochester 3540.

PROVISION OF NURSING REQUISITES.

Arrangements have been made with the British Red Cross Society and St. John Ambulance Brigade for the continuance of the Medical Loan Depots on behalf of the County Council. The full range of nursing requisites will be available at these depots and details of the addresses and the times the depots are open for distribution are available in the district offices. These arrangements will be in addition to the loan cupboards kept by District Nurses. The depots will deal with all applications for the loan of nursing requisites.

Northfleet :—(St. John) 69, Dover Road. Monday—Friday, 7.30 to 9 p.m. (Mr. C. J. Sims. Telephone : Gravesend 4603).

HOSPITAL SERVICES.

From the 5th July, 1948, the hospital and specialist services, including institutions for the chronic sick, mental homes, maternity homes, convalescent homes, dispensaries and out-patient departments will be administered by the Regional Hospital Boards set up by the Minister of Health. The South-East Metropolitan Regional Hospital Board will be responsible for all hospitals in Kent, but for day to day administration Hospital Management Committees have been sent up to deal with groups of hospitals. The District Officer will be supplied with particulars relating to each hospital in his district, but generally speaking admission to hospital is a matter for the doctor in charge of the patient and he will make arrangements direct with the hospital authorities, calling upon the County Ambulance Service for the removal of the patient to hospital where this is considered necessary.

SCHOOL HEALTH SERVICES.

MINOR AILMENT, AURAL, CHILD GUIDANCE, DENTAL, OPHTHALMIC, ORTHOPAEDIC AND SPEECH CLINICS.

Minor Ailment Clinics :

Gravesend, Windmill Street	Every Wednesday and Thursday, 9.30 a.m.
Denton	Every Tuesday and Friday, 9.30 a.m.
Northfleet, West Kent House, Station Road	Health Visitor attends every morning from 9 a.m. to 10 a.m., and Medical Officer on every Saturday morning.
Dartford, County Hospital	Health Visitor attends every morning from 9 a.m. to 10 a.m. and Medical Officer every Saturday morning.

Aural Clinics :

Gravesend, Gravesend Hospital	E.N.T. Surgeon attends 2nd and 4th Wednesday afternoons in the month.
Dartford, County Hospital	E.N.T. Surgeon attends 2nd and 4th Monday afternoons in the month.
Chatham, County Hospital	E.N.T. Surgeon attends every Thursday morning in the month.

Child Guidance Clinics :

Chatham, 118, Maidstone Road	Every Wednesday, Thursday and Friday (all day), and Saturday mornings (by appointment).

Dental Clinics :

Northfleet, West Kent House, Station Road.	Every Monday, Thursday and Friday, all day.
Gravesend, 5, Manor Road	Every day.

In addition temporary clinics are held at Stone, Bean, Hartley, Longfield, Meopham, Southfleet, Fawkham, Higham and Shorne and Cobham.

Ophthalmic Clinics :

Gravesend and North Kent Hospital.	Every Tuesday morning and Thursday afternoons.
Dartford, County Hospital	1st, 2nd, 4th and 5th Wednesday in the month, all day. Every Monday in the month, all day.
Gravesend (Borough) Gravesend and North Kent Hospital	Every Friday afternoon.
Chatham, 118, Maidstone Road	Every Monday, all day. Every Wednesday, all day. 1st, 3rd and 5th, Friday mornings only.

Orthopaedic Clinics :

Dartford, County Hospital	1st, 2nd 3rd and 4th Tuesday afternoons in the month. Physiotheraphy daily.
Gravesend Borough	Referred to Orthopaedic Surgeon at Gravesend Hospital, by arrangement.
St. Bart's Hospital, Rochester	Every Tuesday, 4 p.m.—6 p.m. (Surgeon). Physiotheraphy daily.

Speech Clinic :

Chatham, "Elmsleigh," 118, Maidstone Road	Every Tuesday afternoon and all day Thursday

DISPENSARIES.

Tuberculosis.

13, New Road, Rochester	Tuesdays 2-3 p.m.	Fridays, 9.30-10.30 a.m
Gravesend and North Kent Hospital, Gravesend.	Wednesdays, 1-3 p.m.	

Venereal Diseases.

36, New Road, Rochester. 'Phone: Chatham 3343.	MEN	Mondays	1.30—4.30 p.m.
		Thursdays	10—1 p.m.
	WOMEN	Mondays	1.30—4.30 p.m.
		Thursdays	10—1 p.m.
22, Cobham Street, Gravesend	MEN	Tuesdays	11.30—1.30 p.m.
		Thursdays	3.30—5 p.m.
	WOMEN	Tuesdays	2—3.30 p.m.
		Thursdays	2—3.30 p.m.

HOSPITALS.

Gravesend and North Kent Hospital, Gravesend.—Serves the District, and containes 168 beds, of which 23 are reserved for children's cots and 18 beds and cots for maternity cases.

Day and Time of Attendance for Registration at Out-Patient Department.

GRAVESEND AND NORTH KENT HOSPITAL.

MONDAY

11.00 a.m.	Traumatic Clinic	Mr. M. Landau.
11.30 a.m.	Ear, Nose & Throat	Mr. C. G. E. Plumstead
2.00 p.m. (By appointment with Almoner)	Surgical	Mr. Sol. Cohen

TUESDAY.

11.30 a.m.	Surgical Out-Pat. and Varicose Veins	Mr. K. W. D. Hartley
2.00 p.m.	Ante-Natal	Mr. F. S. Horrocks and
2.30 p.m.	Gynaecological	Mr. A. M. Hunter

WEDNESDAY.

10.00 a.m. (By appointment)	C.O.2	Mr. C. A. White
10.00 a.m. (By appointment) (Plasters)	Fracture Clinic	Mr. M. Landau
1.00 p.m. (By appointment)	K.C.C. Chest Clinic	
3.00 p.m. (By appointment with Almoner)	Psychiatric Clinic	Mr. S. W. Hardwick

THURSDAY.

9.30 a.m.	Ophthalmic	Mr. W. E. Heath
9.00 a.m. New Patients	Orthopaedic	Mr. J. S. Batchelor
10.30 a.m.—2.0 p.m. Old Patients	,,	,, ,,
12.00 noon	Electro-Medical	Mr. K. W. D. Hartley

FRIDAY.

8.30 a.m.	Dental Clinic	Mr. F. T. Wilkinson
11.15 a.m. (By appointment)	Fracture Clinic	Mr. M. Landau
New cases 12.15 p.m.		
1.45 p.m.	K.E.C. Ophthalmic Clinic	Mr. M. F. McDonnell

SATURDAY.

11.00 a.m.	Medical Out-patients	Mr. J. Crawford

DRESSINGS DAILY at 9.00 a.m.

FRACTURE CLINIC. Patients being discharged from the Wards to Fracture Clinic must first make an appointment with the Records Clerk.

KENT EDUCATION COMMITTEE.

TUESDAY MORNING.

	Ophthalmic Clinic	Mr. Simmons

WEDNESDAY.

1.30 p.m.	Aural Clinic	Mr. Gill

THURSDAY AFTERNOON.

	Ophthalmic Clinic	Mr. Simmons

COUNTY HOSPITAL, DARTFORD.

Fracture Clinic	Thursday 9 a.m. Mr. K. Hulbert, F.R.C.S.
Dental Clinic	Thursday by appointment only.
Ante-Natal Clinic	Monday, Thursday, Saturday, 1.15 p.m. Tuesday and Friday, 10 a.m. New Patients by appointment Friday.
V.D. Clinic	Monday, Tuesday, Thursday, Friday— Males 5-6 p.m. ; Females 1.30-4.30 p.m. Doctor Monday—Men 4-6 p.m. ; Women 11 a.m.-1. Dr. Ockwell, F.R.C.S., M.D.
X-Ray and Massage	Monday 9.30 a.m.—5 p.m. Physiotherapist, Dr. Rattray, Wednesday 2.30 p.m. and Thursday 2.30 p.m.
Psychological O.P.	Every Tuesday by appointment. Dr. Robbins, D.P.H.
Gynaecological Clinic	Thursday, 10.30 a.m. G. Dalley, Esq., M.R.C.O.G.
Fertility Clinic	Tuesday p.m. by appointment. G. Dalley, Esq., M.R.C.O.G.
Orthopaedic O.P.	Every Tuesday by appointment (made with Orthopaedic Dept.) K. Hulbert, Esq., F.R.C.S.
Ophthalmic Clinic	Every Wednesday by appointment p.m. F. Lorriman, Esq., F.R.C.S.
Medical O.P.	Dr. G. B. Stratton, M.R.C.P. Tuesday, by appoint. Dr. N. D. McCreath, M.R.A.C.P. Friday by appoint.
Surgical O.P.	Wednesday 9.30 a.m. Mr. Meyrick Thomas, F.R.C.S.
Skin Clinic	Tuesday morning 9 a.m. Dr. Ockwell, F.R.C.S.
Paediatric Clinic	Wednesday by appointment only. Dr. Leys, M.D.
Ear, Nose and Throat	Thursday 2 p.m. J. F. Lipscomb, F.R.C.S.
Dr. Cochrane's Surgical O.P. (Women)	Friday 12 noon. General cases.
Surgical Clinic (Men)	Friday morning 10.30 a.m. Mr. J. C. Morris, F.R.C.S.E.